

REPORT OF ANALYTICAL RESULTS

NETLAB Work Order Number: 9J07022 Client Project: Nutrient Testing

Report Date: 18-October-2019

Prepared for:

Tom Kawa Lowell Regional Wastewater 451 First St. Blvd Lowell, MA 01852

> Richard Warila, Laboratory Director New England Testing Laboratory, Inc. 59 Greenhill Street West Warwick, RI 02893 rich.warila@newenglandtesting.com

Work Order: 9J07022

Date: 10/18/2019 3:52:59PM

Samples Submitted:

The samples listed below were submitted to New England Testing Laboratory on 10/07/19. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is 9J07022. Custody records are included in this report.

Lab ID	Sample	Matrix	Date Sampled
9J07022-01	Inf	Water	10/07/2019
9J07022-02	Plt. Eff	Water	10/07/2019

Request for Analysis

At the client's request, the analyses presented in the following table were performed on the samples submitted.

Sample Name: Inf

Analysis	Method	Analyst
Nitrate and Nitrite as N	4500-N03-E	ESN
Ammonia	SM4500-NH3-D	CPM
Total Kjeldahl Nitrogen	SM4500NH3-D	срт
Total Phosphorous	SM4500-P-E	DAC

Sample Name: Plt. Eff

Analysis	Method	Analyst
Nitrate and Nitrite as N	4500-N03-E	ESN
Ammonia	SM4500-NH3-D	CPM
Total Kjeldahl Nitrogen	SM4500NH3-D	срт
Total Phosphorous	SM4500-P-E	DAC

The analytical methods provided are documented in the following references:

Manual of Methods for Chemical Analysis of Water and Water Wastes, EPA-600/4-79-020 (Revised 1983), USEPA/EMSL.

Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998, APHA, AWWA-WPCF.

40 CFR 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, Office of Federal Register National Archives and Records Administration.

Work Order: 9J07022 Date: 10/18/2019 3:52:59PM

Results:

Sample: Inf

9J07022-01 (Water)

General Chemistry

	Result	Reporting Limit	Units	Date Analyzed
Ammonia	34.1	1.0	mg/L	10/11/19
Kjeldahl Nitrogen	35.5	1.0	mg/L	10/09/19
Nitrate and Nitrite as N	0.04	0.03	mg/L	10/09/19
Total Phosphorous	5.26	0.10	mg/L	10/11/19

Sample: Plt. Eff

9J07022-02 (Water)

General Chemistry

	Result	Reporting Limit	Units	Date Analyzed
Ammonia	17.0	1.0	mg/L	10/11/19
Kjeldahl Nitrogen	17.9	1.0	mg/L	10/17/19
Nitrate and Nitrite as N	4.30	0.15	mg/L	10/09/19
Total Phosphorous	1.82	0.02	mg/L	10/11/19

Work Order: 9J07022

Date: 10/18/2019 3:52:59PM

Case Narrative

The samples were all appropriately cooled and preserved upon receipt. The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

All samples were analyzed in accordance with 40 CFR 136 approved methodologies.



New England Testing Laboratory 1254 Douglas Avenue North Providence, RI 02904

1-888-863-8522

Chain of Custody Record

,	n of Custo	Chain of Cestody Record				
No. Project Name/Location: Quarterly No						
Client, Lowell Regional Wastewater Utility	1		·	rests [°]	ii.	
to: *katva@lowellma.gov				uen		
Keport 10: Lom Kawa Aaron Fox			snc	oriil	na an agus	
invoice To: Lowell Regional Wastewater Utility		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	olods	N Ids	e television super Company of the service of	ti i i potribbego Nacionale nacion
Date Time Correction Sample I.D.	Watrix Code	Containers se Types	orig listo	sinomin bləjyi isto id 8 eitti	emphanika iyan iliyoga Imadoni iliyoga Imadoni iliyoga kuga e	eenster van de seens een de seen
1	WW	1 P, S	1 2	5r 7		
10-6-19 12-900 V PLT. EFF	24/24	. 4				
			7	7		
					1	
					+-	
						<u> </u>
Conatiner Type: P=Poly, G=Glass, AG=Amber Glass,	Amber Glass, V=Vial, ST=Sterile	<u> </u>	Special Instructions:	ctions:		
Preservation Code: NP=None,N=HNO3,H=HCL,S=H2SO	4,SH=NaOH, M=	HCL, S=H2SO4, SH=NaOH, M=MeOH, T=Na2S2O3	ANALYBIS	us per	MPDES	 :::-:
Watrix Code: GW⊏Ground Water, SW=Surface Water, WM=	ace Water, WM≓Wastewater, DW=DrinkingWater, S=Soji	inkingWater,S=Soil	PERMIT	-		ramant.
Sampled By: Date/Time Received By:	Date/Time		TT			PERIOR NE AME
11 tix-0/	10/1/0	nquisned By:	Laboratory Remarks:	marks:		f tri iw i
	5:11					FIST STUPLAT :
relinquished by: Date-Time Received By: 10/1/1	Date/Time Received By:	eived By:				
The Man Miles	197			1)		
**Netteb Subcontracts the following tests: Radiologicals, Radon, TOC, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Samonella, Carbamates.	TOC, Asbestos,	UCMRs, Perchlorate,	Temp. Received:	3d: 7		
			Turnaround Time [Business Days]: \$ Days	ne [Business	Days]: 6 Day	 S